



As a senior Java developer with a background in artificial intelligence, I have been working on business integration and web applications since 2000. I have experience in various domains, including finance, insurance, medical, geographic, ticketing, e-commerce, retail, mobility, government and defense. Although I usually work as a back-end developer, I sometimes take on additional responsibilities, such as lead developer, architect or coach.

I believe it is important to deliver high-quality code that is both testable and understandable to ensure long-term maintainability. Important pillars to achieve this goal are transparent communication and continuous improvement within the team processes.

PERSONAL DETAILS

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Adriaan Koster BV
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EDUCATION

Doctorate Artificial Intelligence,
 VU Amsterdam

SCJP
 for the Java 2 platform

SCWCD
 for the J2EE platform

Scrum Master (PSM-1)

SKILLS

Java
 Kotlin
 Groovy

LANGUAGES

Dutch: mother language
 English: excellent
 German: good
 French: reasonable

CHARACTERISTICS

Driven, Involved, Critical,
 Analytical, Extroverted,
 Social, Communicative

WORK EXPERIENCE

ASML, IT SD Manufacturing Team
 2025 | Senior Java ontwikkelaar

The Man. United Team develops the AVT application, which is used to validate all steps in the complex manufacturing processes beforehand and to verify them during the build. AVT is used globally across ASML factories.

I worked as a backend developer on this tool and built several complex new features, including linking build plans to previously executed versions—allowing various types of data to be inherited by their successors—and importing new build plans via Excel.

- Frameworks* Java 21, Spring Boot 3, Maven, JFrog
- Tools* IntelliJ, GitLab, SonarQube, Grafana
- Testing* JUnit, Mockito, MockServer, Testcontainers, Awaitility
- Data Spring* Data, Hibernate, Envers, PostgreSQL, Liquibase, Redis
- Messaging* REST, JMS, Tibco
- CI/CD* Docker, Kubernetes, Helm, Azure
- Security* Vault, OAuth2, SSO, Okta

Rijkswaterstaat, ORT-SVM | 2024 | Senior Java developer

The ORT develops several applications to support inland shipping. Within team Cyan, I worked as a Kotlin developer mainly on NLRDMS, an application that supports the planning of voyages by issuing reference data such as locations, container types and cargo types.

Since the existing J2EE application no longer met the needs, we completely rebuilt it in Kotlin, with a microservices architecture. The application retrieves changes from ERDMS (the European system with reference data) and stores them as JSON documents in MongoDB.

- Frameworks* Kotlin 2, Java 21, Spring Boot 3, Maven, Nexus
- Tools* IntelliJ, Git, Sigrid, SonarQube, Grafana
- Testing* JUnit, Mockito, HttpClient, Robot framework
- Data* Spring Data, PostgreSQL, Liquibase, MongoDB, Redis
- Messaging* SOAP, REST, JMS, ActiveMQ, Artemis
- CI/CD* Docker, Kubernetes, Helm, GitLab CI, ArgoCD
- Security* Spring Security, KeyCloak, Vault



Utrecht University, Faculty of Geosciences | 2023 | Senior Java developer

The GAIM project investigates how households can learn to save energy through gamification. For this project I built a new backend application that mandates the smart meters of a household with EDSN and periodically retrieves the gas and electricity meter readings.

This data can be queried via a REST API that is secured with SSL and API tokens. I also set up the development and deployment infrastructure for this using Maven, Github Actions, Docker, Harbor and Kubernetes.

Frameworks *Java 17, Spring Boot 3, Maven 3*

Tools *IntelliJ, Git, JIRA, Teams, Qodana*

Testing *JUnit, Mockito, HttpClient*

Data *Spring Data, JPA, PostgreSQL, Liquibase*

Messaging *SOAP, XML, REST, JSON, SFTP (Spring Integration)*

CI/CD *Github Actions, Docker, Kompose, Kubernetes, Harbor, OpenStack*

Security *TLS 1.3, Java WSSE (SOAP signing), RSA, SFTP*

KLM | 2020 - 2023 | Senior Java developer

Within the Order Management department, I worked in the OMNDC team since its founding in 2020. The team is responsible for the backend of the NDC reservation channel, which is used by travel agents to make bookings directly with KLM. During this period I reintroduced refactoring, code reviews and automated testing to the team.

I built several new features such as email opt-out, dynamic pricing, dynamic voucher validation, new price types and new gender types. In addition, I tracked and resolved bugs, such as providing the correct price information after a rebooking. In the role of release captain, I put new versions of the software into production and performed consignment services.

Frameworks *Java 11, Kotlin, Groovy, Gradle, Spring boot*

Tools *IntelliJ, BitBucket, Git, Nexus, JIRA, Confluence, Grafana, BamInsights, Graylog, SOArepo, Oscar*

Testing *Gatling, JBehave, Cucumber, JUnit, JaCoCo*

Data *Spring data, Hibernate, Liquibase, Oracle, SQL, Amadeus*

Messaging *SOAP, WSDL, XSD, REST, JSON, Swagger, Kafka, JMS*

CI/CD *Bamboo, GitHub Actions, SonarQube, Mashery, Docker, Rancher, Kubernetes, Helm, Azure, XL Deploy*

Security *OWASP, ZAP, SSPT, Squirrel, Secure code warrior*

Alliander | 2019 - 2020 | Senior Java developer

Smart Society Services was a startup by Alliander that developed the open source Open Smart Grid Platform (OSGP, now Grid Exchange Fabric). This is a highly scalable IoT platform that allows large numbers of remote devices, such as smart meters, to be managed.

When I got involved, the last remaining developer almost left. I helped rebuild the team and further expand the application to go into production with the applications that use it, such as smart meter management, public lighting and automated distribution. I also built a new protocol adapter for the OSGP platform. The component talks to a local network analyzer (LNA) in a medium-voltage room using the MQTT protocol. The LNA talks to smart meters to prevent peaks in the electricity network.

Frameworks *Java 8 & 11, Javascript, Spring Boot 2, Material Design, AngularJS*

Tools *IntelliJ, Git, Maven, SonarQube, Artifactory, JIRA*

Testing *JUnit, Mockito, Cucumber, Selenium*

Data *PostgreSQL, JPA, Hibernate, Flyway*

Messaging *SOAP, ActiveMQ, HiveMQ, Moquette, JMS*

CI/CD *Tomcat, Apache, Jenkins, Microservices, Docker, Kubernetes, AWS*

Security *Encrypted XML, SSL*



Quby | 2018 | Senior Java ontwikkelaar

As part of the B2B team I built, redesigned and maintained several microservices in an IoT environment. *Java, Spring Boot, Tomcat, Thymeleaf, MySQL, REST, SOAP, ActiveMQ, Docker, K8S, AWS, Apigee, iWelcome, OAuth2*

Ahold Delhaize | 2018 | Senior Java developer

In the mobile services team I worked on the backend for Ahold's mobile apps. *OAuth2, Kotlin, Feign, Hystrix*

De Persgroep | 2017 | Senior Java developer

In the DevOps Team 'Amsterdam' I worked on the backend for de Volkskrant, Parool and Trouw. *Thymeleaf, NodeJs, CSS, SASS, AWS, JBoss, MongoDB, Elasticsearch, Hystrix, Akamai*

BVA Auctions | 2017 | Senior Java developer

In the finance team of this online auction site I refactored existing code as microservices. *Docker, Gradle, Elasticsearch, PostgreSQL*

TNO, Geological Survey of the Netherlands | 2016 - 2017 | Senior Java developer

For DINO I migrated 26 Webstart applications from Java 5 to 8, Maven 2/Ant to Maven 3, CVS to GIT, Tomcat 5 to 7, Hudson to Jenkins.

Ministry of Defense, JIVC/SATS | 2015 - 2016 | Senior Java developer

In the Tool team I expanded a desktop application that generates deployment models for ships. *Netbeans Platform 8.1, TFS, JAXB, JDOM, FreeMarker*

Global Collect | 2015 | Senior Java developer

I was asked to help improve code quality and evaluate new developers. Along the way I have also improved the communication between the offshore team and the company's employees, and increased the level of unit testing.

Greenwheels via Info.nl | 2014 | Senior Java developer & Scrum master

The assignment was to set up a new backend for Greenwheels, the Fleet Sharing Platform. Here I helped to get the project back on track by taking on the role of scrum master and building an MVP with a smaller team according to a simplified architecture.

CDI (Java EE dependency injection), Glassfish, Arquillian, Gatling, JMeter, Hibernate + Envers, PostgreSQL, PostGIS, Google Glass, Mirror API

Acta Marine | 2014 - 2016 | Enterprise Architect

I helped set up a Service Oriented Architecture for the Waterman application. This is an internally developed ERP application, written in .Net, that had to be improved and expanded for the client's globally operating ships.

GoAbout | 2014 | Senior Java developer

I have expanded the mobility service 'goabout.com' with OAuth2 security, support for multimodal travel and travel monitoring based on current GTFS data.

Spring Security 3, Vagrant, PostGIS, Google Maps API, Elasticsearch, AngularJS, Protobuf

Quince | 2013 | Senior Java developer & Android developer

HTC Specialist was a social platform for smartphone sellers with more than 75,000 users worldwide. I added features to the Android app and the website, and built a library for new phone models using a digitally controlled Traka safe system.

Grails, Groovy, Gradle, Android, Genymotion, Virtualbox, Traka, Balsamiq



ING DU Business | 2012 | Senior Java developer

I have worked on expanding business Internet banking with SEPA rules (including the adoption of IBAN) and incorporating notifications. In addition, my assignment was to coach other members of the scrum team, which led to improvements in the working method and code quality.

IBM RSA 8.0.4, IBM WAS 6.1

CRV | 2012 - 2014 | Senior Java developer

CRV provides services for livestock farmers. I built two custom components for their new ERP system: A web service where employees use a PDA to retrieve current schedules, customer and product data, and a batch process to process files with delivered products and services for invoicing.

SOAP, JAX-WS, JAXB, Spring WS, SoapUI, Grails

KLM | 2011 - 2012 | Senior Java developer

The Manage My Booking (MMB) team developed the part of the KLM website where customers can add extra services to their bookings. I added new features to the frontend and backend. I also built a Maven plugin for automatic deployments.

GoAbout | 2010 | Senior Java ontwikkelaar and architect

The founders of this new startup asked me to help set up the architecture and infrastructure for a new mobility service. I built a web frontend and REST services for dynamic route planning from MS Outlook.

Bureau de Wit | 2010 - 2011 | Senior Java developer

I converted the existing Struts application to Wicket and provided it with a new navigation and layout. I have also added visualization, monitoring and alarms based on wireless temperature measurements in tap points, to prevent legionella.

De Roode Bioscoop | 2010 | PHP developer

As an unpaid volunteer, I built an iDeal basic implementation in PHP based on the ING iDeal API for the online ticket sales of this small, idealistic theater.

ING CCRM | 2009 - 2010 | Senior Java developer

GRID is an application that manages data from more than eight million organizations and individuals. I have reduced memory usage in this application using lazy loading. I also improved the quality of the code by implementing Spring dependency injection, expanding test coverage and setting up continuous integration.

Bank Mendes Gans via Chess IT | 2008 - 2009 | Senior Java developer

At Chess IT I worked on an application for currency risk and cash position management for Bank Mendes Gans in a project team of 15 people. I designed and built a workflow engine for collaborative editing and approval of transactions. Using AspectJ I built an authorization layer on the backend services.

ING/Nationale Nederlanden | 2008 | Senior Java developer

With a team from Tryllian we built an innovative prototype with a self-learning agent architecture. I added dynamic advice and premium determination for car insurance using a Drools rule engine. With Joone I trained a neural network to analyze GPS traces to determine risk factors for driving behavior.

SeeTickets | 2008 | Senior Java developer

The assignment was to add additional sales channels in order to be able to carry out ticket sales that were dependent on these channels. I designed and built the new Freeline application for this purpose, a link between the client's Softix ticket sales system and the POS cash registers of the Free Record Shop. I then also added a link to Heineken's Virtual Affairs website.

Ebay/Marktplaats | 2007 - 200 | PHP developer & Senior Java developer

I added a co-branded Google search function and in-memory caching to the Marktplaats website. In addition, I designed and built a Java component for streaming database updates as events via Tibco. *PHP 4 & 5, Google AdSense, Memcached, MySQL Triggers & Stored procedures, TIBCO Rendezvous*

Microbais | 2007 | Senior Java developer

For this assignment I worked on a pilot application to demonstrate successful integration between the Aposys pharmacy system, the 'Landelijk Schakelpunt' of NICTIZ and the SBV-Z. This integration enables pharmacies to securely request customer data from each other (Electronic Patient File). *Sonic MQ7, Authentication Forwarding met SmartCards*

Geotax, Urbidata & Arcadis | 2006 - 2007 | Senior Java developer

We developed an application that enabled municipalities to comply with the new WKP law that came into effect in the Netherlands in April 2007. *Oracle Spatial, FlexiMap, Landelijke Voorziening (StUF 2.0 koppelvlak), Basisregistratie Adressen en Gebouwen (BAG), JBPM (BPMN)*

Tryllian Solutions | 2000 - 2006 | Java architect

In these years, Tryllian developed its own multi-agent platform (ADK). Multi-agent systems was a concept within artificial intelligence that attracted a lot of interest at the time. It provided an abstraction layer to build distributed systems. As an architect in the customer solutions team, I designed and built demo applications and prototypes for customers using the ADK.

Faculty of Science, Vrije Universiteit | 1998 - 2000 | Scientific programmer

After graduating with a thesis on computer-guided education (CGO), I designed and built a couple of these CGO modules. For this I used HTML, JavaScript and Java. Then I worked on setting up CGO for several faculties using an existing software package.

The logo for ASML, consisting of the letters 'ASML' in a bold, blue, sans-serif font.The logo for KLM, featuring a crown icon above the letters 'KLM' in a bold, blue, sans-serif font.The logo for Universiteit Utrecht, featuring a circular sunburst icon to the left of the text 'Universiteit Utrecht' in a blue, sans-serif font.The logo for alliander, featuring the word 'alliander' in a white, lowercase, sans-serif font on a green rectangular background with an orange shadow below it.

Rijkswaterstaat

➤ **Marktplaats**

 **Acta Marine**

ING 

 **Ahold
Delhaize**

TNO

 **Bank Mendes Gans**



Ministerie van Defensie

dpgmedia 

 **greenwheels**


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CRV 

 **GoAbout**